

**Amendments to the Specification:**

Please amend the specification as follows:

Please replace paragraph 0003, with the following paragraph:

[0003] So far, over 340 different beta-lactamase sequences have been described. TEM beta-lactamases are one group of serine beta-lactamases (i.e. OXA, SHV), and are found in many different species of the family **Enterobacteriaceae**, **Enterobacteriaceae**, *Pseudomonas Aeruginosa*, *Haemophilus influenzae*, and *Neisseria gonorrhoe*. The first TEM enzyme (TEM-1) was isolated in 1965 from *E. coli* and confers resistance to narrow spectrum cephalosporins, cefamandole, and cefoperazone and all the anti-gram-negative-bacterium penicillins except temocillin.

Please replace paragraph 0041, with the following paragraph:

[0041] The capture probe, associated with the micro-arrays, may be derived from any of the beta-lactamase genes known so far, such as e.g. from the beta-lactamase gene of **Enterobacteriaceae**, **Enterobacteriaceae**, e.g. *E.coli*, *Enterobacter spp.*, *Morganella morganii*, *Proteus spp.*, *Providencia spp.*, *Salmonella spp.*, *Klebsiella spp.*, *Citrobacter spp.*, *Shigella dysenteriae*, *Serratia marcescens*, and non fermenting bacteria, i.e. *Pseudomonas spp.*, *Burkholderia cepacia*, and other gram negative species of pathogenic relevance, e.g. *Haemophilus spp.*, *Neisseria spp.* (Bradford, Clinical Microbiology Reviews; Oct.2001, p933-951; Thomson, Emerging Infectious Diseases, March-April 2001, p333-336). The references for the published sequences of the different genes are in public domain ~~may be derived from <http://www.lahey.org/>, which documents are incorporated herein by reference.~~

Please replace paragraph 0052, with the following paragraph:

**[0052]** In a most preferred embodiment, the present method puts to use an oligonucleotide micro-array for identifying single nucleotide polymorphisms (SNP's) of 119 until today described TEM beta-lactamases (<http://www.lahey.org/Studies>). This micro-array contains for 41 SNP (single nucleotide polymorphism) positions (ESBL, IRT, or both) oligonucleotide probes with variable length (17-27 bases) (cf. table 2).